

# MAC-ENC-MTP-040

## AIR QUALITY MANAGEMENT PLAN

### Document Owner

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Draft

## Contents

1.0	Introduction.....	3
1.1.	Objectives.....	3
1.2.	Environmental Management System.....	3
1.3.	Consultation Process.....	3
2.0	Impact Assessment Criteria.....	4
3.0	Control Measures .....	5
3.1	Air Quality Control Measures.....	5
3.2	Monitoring Program and Baseline Data.....	8
3.3	Management of Short-Term Dust Episodes and Cumulative Impacts .....	8
3.4	Greenhouse Gas Management .....	8
3.5	Odour Management.....	10
4.0	Response Procedures .....	10
4.1	Operational Response Process .....	10
4.2	Contingency Plan .....	10
4.3	Community Response Process .....	11
4.4	Landowner Notification, Independent Review and Land Acquisition .....	11
5.0	Reporting.....	11
6.0	Performance Indicators .....	12
7.0	Continual Improvement .....	12
8.0	Periodic Review.....	12
9.0	References .....	14
9.1	External Documents .....	14
9.2	Mt Arthur Coal Internal EMS Documents.....	14
	Appendix 1: Air Quality Management Plan Requirements Checklist.....	15
	Appendix 2: Landholder Consultation and Investigation Process .....	28
	Appendix 3: Government Approval Document.....	29

## Tables

Table 1:	Active Dust Control Measures.....	5
Table 2:	Reportable Greenhouse Gases .....	9
Table 3:	Air quality management plan requirements checklist .....	15

## Figures

Figure 1:	Landholder consultation and investigation process.....	28
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## 1.0 Introduction

Hunter Valley Energy Coal Pty Limited operates the Mt Arthur Coal Complex which consists of approved open cut and underground mining operations, a rail loop and associated rail loading facilities. The operations are located in the Upper Hunter Valley, NSW approximately five kilometres south west of Muswellbrook.

Project Approvals and the Environmental Protection Licence (EPL) associated with Mt Arthur Coal mining operations are provided in Appendix 1.

The proposed Mt Arthur Underground operation has not commenced. This management plan will be reviewed and updated prior to the commencement of underground operations.

This Air Quality Management Plan (AQMP) has been prepared to detail the relevant air quality impact assessment criteria, best practice management and compliance checking procedures for subsequent reporting in accordance with the Department of Planning and Infrastructure (DoPI) and the NSW Office of Environment and Heritage (OEH) requirements.

### 1.1. Objectives

The objectives of this AQMP are to:

- Ensure all relevant statutory requirements and BHP Billiton Policies and Standards are met;
- Employ applicable best practice air quality tools to manage and minimise the impact of dust from mining operations on the environment and nearby residences;
- Maintain highest practicable levels of amenity for surrounding residents;
- Maintain an effective response mechanism to deal with issues and complaints; and,
- Ensure the results of air quality monitoring comply with applicable criteria.

### 1.2. Environmental Management System

Mt Arthur Coal has a firm commitment to minimising the impact of its operations on the local environment and community, and has a comprehensive Environmental Management System (EMS) in place to fulfil this commitment. This AQMP is a component of the Mt Arthur Coal EMS.

### 1.3. Consultation Process

This AQMP has been prepared in consultation with OEH, NSW Department of Primary Industries (DPI) and Muswellbrook Shire Council (MSC).

Consultation has also been undertaken with neighbouring coal mines, including the Drayton and Bengalla Mines and the Mt Pleasant Project.

## 2.0 Impact Assessment Criteria

The impact assessment criteria applicable to the Mt Arthur mine complex are listed in *MAC-ENC-PRO-057 Air Quality Monitoring Program*, and apply at privately owned residences and at privately owned vacant land. Privately owned vacant land is considered dust-affected when dust levels exceed the criteria over more than 25% of the area of land.

In accordance with the Project Approval, Mt Arthur Coal must not cause any additional exceedances of the air quality impact assessment criteria, except where predicted in the Mt Arthur Coal Consolidation Project Environmental Assessment (Hansen Bailey, 2009).

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## 3.0 Control Measures

The Mt Arthur Coal air quality management system includes a comprehensive set of both proactive and reactive control measures and monitoring tools designed to minimise the generation of wind-blown dust from disturbed surfaces and mining activities, and enable effective control of episodic dust events.

### 3.1 Air Quality Control Measures

Table 1 describes the proposed air quality control measures for sources of wind blown dust and activity-generated dust due to mining operations and also summarises the responsibilities that have been documented within this plan. A major management tool in all instances will be daily on-site visual inspections and the real-time/SMS alarm response system. The real-time/SMS alarm response system provides notifications that enable operational activities to be adjusted to avoid exceedances of regulatory air quality criteria.

**Table 1: Active Dust Control Measures**

Source	Control Measures	Responsibility	timing
<b>Wind-Blown Dust Sources</b>			
Areas disturbed by mining operations	Disturb only the minimum area necessary for mining.	Manager Planning and services	Ongoing
	Remove topsoil from a maximum of one mining strip width ahead of the active pit at any time.	Superintendent Drill and Blast	ongoing
	Reshape, topsoil and rehabilitate completed overburden emplacement areas as soon as practicable after the completion of overburden placement.	Manager Mining	ongoing
Overburden Emplacement Areas	Use of cover crops, increased surface roughness, or other temporary revegetation measures to form temporary seals on the surface of large elevated overburden emplacement areas that remain unused and exposed for over six months will be explored and trialled where practical.	Civil Engineer	ongoing
Coal Handling Facilities	Maintain unsealed coal handling areas in a moist condition using water carts or alternative means to minimise wind-blown and traffic generated dust.	Coal Processing Superintendent	As required
	Prompt clean up of any spillage.	Coal Processing Superintendent	As required
Coal Stockpiles	Automatic sprays on all stockpiles. Automatic sprays are to be activated when wind speeds exceed 6m/s (averaged over a 15 minute period), except during rain.	Coal Processing Superintendent	As required
<b>Activity-Generated Dust Sources</b>			
Haul Roads	All unsealed roads and frequently trafficked areas will be watered using water carts or sprays to minimise the generation of dust and particulate.	Manager mining	ongoing

Source	Control Measures	Responsibility	timing
	All haul roads will have edges clearly defined with marker posts or equivalent to control their locations, especially when crossing large overburden emplacement areas.	Manager Services and Planning	ongoing
	Obsolete roads will be ripped and re-vegetated.	Manager Mining	As required
	Dust suppressant may also be used when considered feasible.	Manager Excavators	ongoing
Minor Roads	Development of minor roads will be limited where possible and locations clearly defined.	Manager Mining	ongoing
	Minor roads used regularly for access will be watered.	Manager Mining	ongoing
	Roads are speed limited. Speed limits will be enforced to ensure excessive vehicle speeds do not contribute to unacceptable dust generation.	Superintendent safety and Risk	monthly
	The use of dust suppressant will be explored, where practical, for minor roads.	Manager Mining	ongoing
	Obsolete roads will be ripped and re-vegetated.	Manager Mining	As required
Topsoil Stripping	Tracks used by topsoil stripping scrapers during their loading and unloading cycle will be watered.	Superintendent contract mining	As required
	Stripping will occur preferably in damp conditions if practical and during favourable wind conditions.	Superintendent contract mining	As required
Topsoil Stockpiling	Long term topsoil stockpiles, not used for over 6 months, will be sown with cover crops.	Superintendent contract mining	As required
Drilling	Air pollution control equipment will be fitted to all drilling rigs to prevent fines generated during drilling being discharged to the atmosphere.	Manager shovels and contract mining	Ongoing
Blasting	Fine material collected during drilling must not be used for blast stemming.	Superintendent Drill and Blast	Ongoing
	Adequate stemming will be used at all times.	Superintendent Drill and Blast	Ongoing
	Blasting will only occur following an assessment of weather conditions by the Environment Coordinator and Drill & Blast Superintendent to ensure that wind speed and direction will not result in excess dust emissions from the site.	Superintendent Drill and Blast	Ongoing
Raw Coal Hopper Bins	Automatic sprays and/or wind shields will be used when tipping raw coal that generates excessive dust.	Coal Processing Superintendent	During all raw coal tipping operations
Coal Handling and Preparation Plant	Conveyors will be shielded on top and at least one side, and automatic sprays will be fitted at transfer points.	Coal Processing Superintendent	During routine maintenance inspections
	Use of street sweeps on hard stand areas.	Superintendent Maintenance (CHPP)	As required
	Use of a small water cart as required.	Superintendent Processing	As required
Overburden dumping	When SMS wind alarms are received ensure no overburden is tipped on high exposed faces	OCEs	Ongoing
Rail Loading Facility	Conveyors will be shielded and automatic sprays fitted at all transfer points.	Manager Coal Processing	Ongoing
<b>Excessive Dust Events</b>			
Haul Roads	Deployment of additional water carts to control haul road	Manager Mining	As required

Source	Control Measures	Responsibility	timing
	dust		
	Relocation of haul truck routes in response to wind direction and speed	OCE	As required
Overburden Emplacement Areas	Relocation or modification of exposed operations such as topsoil removal or overburden dumping.	OCE	As required
	Should visibility on Denman Road, Edderton Road or Thomas Mitchell Drive affect the safety of drivers, mining operations will be altered or ceased until such time that visibility improves.	OCE / Manager Mining	As required
	Use of additional monitoring if and when required for episodic situations.	Environment Superintendent	As required
Areas disturbed by Mining Operations	Where relocation is not possible temporary halting of activities and resuming when weather conditions have improved will be assessed and implemented where required.	OCE / Mining Manager	As required
<b>Operational Response Processes</b>			
Air Quality Management Plan and monitoring program	Operate in accordance with the AQMP and Implement procedures contained within this management plan	All employees	ongoing
	Ensure the air quality and meteorological monitoring network is maintained and results are routinely monitored and analysed	Environmental Coordinator	In accordance with the Air Quality Monitoring Program
	Receiving, reporting and responding to any complaints in relation to air quality through the 24-hour complaints line	Environment and Community Manager	Ongoing
	In the event of a high dust alarm report the results to the Open Cut Examiner, investigating the source, and ensuring that operational procedures outlined in this plan are undertaken	Environment and Community Manager	Ongoing
	Evaluating the prevailing weather conditions to ensure that wind speed and wind direction will not result in excess dust emissions leaving the site	Environment Coordinator	ongoing
	Report the results of any air quality monitoring in accordance with the conditions of Consent	Environment and Community Manager	As required
	Ensuring that all employees and contractors are given adequate training in environmental awareness, legal responsibilities, and air quality control methods	Environment Superintendent	Ongoing
	In the event of a high dust alarm investigate the source and undertake response procedures to identify and mitigate the source of dust	OCE	As required
	Ensure that all operational activities are undertaken such that they comply with the procedures of this management plan	All	Ongoing
	Investigate the source of any problem dust emissions and implement the appropriate mitigation and control measures, or alter operations as detailed above	Open Cut Examiner	As required
	Any corrective action will be recorded and reported to the Environmental Coordinator who is to keep a record of all		

Source	Control Measures	Responsibility	timing
	significant proactive and reactive actions; The Environmental Coordinator must be informed of any complaint and details must be recorded in the complaints register in addition to response and actions taken An investigation to determine whether there is any relationship between short-term dust episodes, and the frequency of dust related community complaints will be undertaken annually and reported in the Annual Environmental Management Report (AEMR).		

**Note:** Responsibilities may be delegated as required.

### 3.2 Monitoring Program and Baseline Data

An Air Quality Monitoring Program has been prepared in accordance with the Minister’s Project Approval conditions. Data from the monitoring program will be used to determine the impact of Mt Arthur Coal’s operations on the surrounding air environment and community.

The *MAC-ENC-PRO-057 Air Quality Monitoring Program* has been prepared as a separate document to the AQMP. Refer to the URS Australia Pty Limited (2000) The Mount Arthur North Coal Project, Environmental Impact Statement and Hansen Bailey (2009), Mt Arthur Coal Consolidation Project Environmental Assessment for details on baseline air quality studies.

### 3.3 Management of Short-Term Dust Episodes and Cumulative Impacts

Management of short-term episodes will primarily be undertaken using the real-time monitoring system described in the *MAC-ENC-PRO-057 Air Quality Monitoring Program*, supported by a range of available controls described in Section 3.1.

An investigation to determine whether there is any relationship between short-term dust episodes and the frequency of dust related community complaints will be undertaken annually and reported in the Annual Environmental Management Report (AEMR).

To assist in reviewing cumulative dust impacts around the Mt Arthur Coal operation, consultation and data sharing arrangements will be explored with neighbouring mines.

### 3.4 Greenhouse Gas Management

Mt Arthur Coal maintains an active greenhouse gas (GHG) and energy efficiency management program to effectively manage and measure GHG emissions, minimise uncontrolled GHG emissions and provide a platform from which to work to meet future legislative requirements.

Section 3.4 has been developed in accordance with BHP Billiton’s Sustainable Development Policy and Environmental Standard and provides the mechanisms for Mt Arthur Coal’s compliance with the National Greenhouse and Energy Reporting (NGER) Act 2007, project approval and other statutory requirements.

In accordance with NGER legislation, Mt Arthur Coal regularly quantifies greenhouse gas emissions attributable to its operations, including emissions from coal seams and emissions caused by fuel consumption, electricity consumption, and the use of explosives. Mt Arthur Coal reports annually against the GHGs shown in Table 2. Carbon dioxide and methane are the major contributors to emissions from Mt Arthur Coal.

**Table 2: Reportable Greenhouse Gases**

Greenhouse Gas	Symbol	Global Warming Potential
Carbon Dioxide	CO <sub>2</sub>	1
Methane	CH <sub>4</sub>	21
Nitrous Oxide	N <sub>2</sub> O	310
Hydrofluorocarbons	CHF <sub>2</sub> FCF <sub>3</sub>	1300
Perfluorocarbons	CF <sub>4</sub> and C <sub>2</sub> F <sub>6</sub>	6500, 9200
Sulphur Hexafluoride	SF <sub>6</sub>	23900

Carbon dioxide is associated with seam gas emissions and the burning of diesel and is a significant contributor to the emissions from site. Methane is associated with emissions of seam gas, which is also a significant contributor to site GHG emissions. Nitrous oxide is associated with the combustion of diesel but is not as significant as either carbon dioxide or methane. The remaining gases listed in Table 2 are only used on site in very small quantities for refrigeration and electrical safety purposes. Their theoretical emission level is nil and although some emissions do occur they are negligible in the context of the whole site.

Some of the key focus areas for GHG management on site include:

- Establishing an NGER Method 3 assessment of fugitive seam gas emissions;
- Improving blasting practices to minimise diesel use and emissions;
- Generating and maintaining best practice management for synthetic and refrigeration gasses; and
- Exploring the increase of the percentage of biodiesel used across site.

Mt Arthur Coal's efforts to reduce GHG emissions are complemented by energy efficiency measures in compliance with the Energy Efficiency Opportunities program. Energy efficiency initiatives and opportunities are evaluated in the context of;

- their compatibility with the mine's production output needs,
- energy and carbon costing,
- capital cost; and
- overall operating cost effectiveness including maintenance costs.

At the start of each financial year Mt Arthur Coal establishes targets for total emissions and emissions intensity. Targets are set and approved by BHP Billiton through policies and standards, the President of NSW Energy Coal and the Environment and Community Manager. In addition BHP Billiton also sets corporate emission targets which apply to Mt Arthur Coal and are externally reportable.

The site's progress against these targets is communicated through monthly Health, Safety, Environment and Community reports, monthly manager meetings and toolbox talks.

Mt Arthur Coal identifies and assesses opportunities to reduce greenhouse gas emissions resulting from mine operations. Following the assessment of opportunities, reasonable and feasible measures that are deemed effective at reducing greenhouse gas emissions are implemented. Regular monitoring enables Mt Arthur Coal to progressively assess and prioritise actions with operational growth and change. Mt Arthur Coal reports on the management of GHG emissions and energy use in the AEMR.

### 3.5 Odour Management

The primary potential source of odour at Mt Arthur Coal is spontaneous combustion. Mt Arthur Coal controls the spread of spontaneous combustion by removing and purposely disposing of any carbonaceous material that is prone to self heating (except where the material is extracted run of mine coal). Disposal areas are then capped with inert material to prevent the development of spontaneous combustion and the release of odorous emissions. Coal stockpiles are managed to reduce the risk of spontaneous combustion outbreaks. Mt Arthur Coal submits a six-monthly report to OEH including monthly summaries of actions and procedures undertaken by Mt Arthur Coal to prevent spontaneous combustion at the premises, an assessment of the effectiveness of these controls, and maps showing the approximate location and relative heat intensities of areas subject to spontaneous combustion.

## 4.0 Response Procedures

### 4.1 Operational Response Process

Operational response procedures are detailed in Table 1.

### 4.2 Contingency Plan

Where dust and/or particulate concentrations consistently approach or exceed the relevant air quality criteria, active air quality controls for excessive dust events (refer to Table 1) will be implemented and additional dust and particulate control measures investigated. Mining operations will be modified until air quality levels return to an acceptable range and/or the source of the exceedances can be determined and managed. Exceedance reporting will comply with Schedule 5 condition 7 of the Project Approval and Section 6.0 of this AQMP.

### 4.3 Community Response Process

All complaints received regarding operational air quality will be responded to in accordance with *MAC-ENC-PRO-042 Community and Environmental Incident Response and Reporting*. This procedure details Mt Arthur Coal's obligations in regards to receiving, handling, responding to, and recording details of all community complaints.

### 4.4 Landowner Notification, Independent Review and Land Acquisition

Conditions 1 to 8 of Schedule 4 of the Project Approval detail procedures applicable to Mt Arthur Coal and include landowner notification, Independent Review and land acquisition procedures. Mt Arthur Coal will follow the protocols outlined in the Project Approval, this is outlined in Appendix 2.

## 5.0 Reporting

Air quality management reporting is designed to comply with the Project Approval and EPL conditions, and provide stakeholder access to relevant air quality information and data.

Key stakeholders requiring access to this information include Mt Arthur Coal, state and local government agencies, and the local community. Reporting will be undertaken in accordance with *MAC-ENC-PRO-008 Communication and Reporting* and *MAC-ENC-PRO-042 Community and Environmental Incident Response and Reporting*. Annual reporting will be undertaken in accordance with Schedule 5, Condition 3 of the Project Approval and the annual return reporting requirements of the EPL.

Mt Arthur Coal will report on the performance of the Air Quality Monitoring Program in the Annual Environmental Management Report (AEMR) and provide regular updates to members of the Community Consultative Committee (CCC). The AEMR will include:

- Air quality monitoring results and comparison to performance criteria;
- Air quality related complaints and management/mitigation measures undertaken;
- Management/mitigation measures undertaken in the event of any confirmed exceedance of performance criteria; and
- Review of the performance of management/mitigation measures and the monitoring program.

The AEMR will also be submitted to the CCC and made available for public information on Mt Arthur Coal's website.

The Annual Return for EPL 11457 will include an air quality monitoring report covering the following items relating to air quality:

- Any exceedance of air quality performance criteria;
- The cause of the air quality exceedance;
- Mitigation measures implemented to minimise or prevent dust;
- The air quality monitoring results at each air quality monitoring station; and
- An explanation for any missing air quality monitoring results.

## 6.0 Performance Indicators

The extent to which this AQMP complies with Project Approval and EPL requirements will be measured by the following performance indicators:

1. Compliance with relevant air quality standards at monitoring locations, in particular those representative of sensitive receptor locations;
2. Minimisation of air quality complaints as evidenced by trends in the frequency and extent of complaints.
3. Compliance with the *MAC-ENC-PRO-057 Air Quality Monitoring Program* and this plan, as indicated by internal and statutory reporting.

## 7.0 Continual Improvement

Mt Arthur Coal will strive to continually improve on the mine's environmental performance by applying the principles of best practice to mining operations, including where cost-effective and practicable, the adoption of new best practice technologies and improved air quality control measures. Progress will be monitored using the above noted performance indicators.

Mt Arthur Coal will also examine the correlation between weather conditions and air quality levels to allow procedures to be developed for the active management of predicted dust impacts. In particular, the application of predictive models to forecast dust impacts will be evaluated as a potential planning and management tool.

## 8.0 Periodic Review

This AQMP and associated monitoring plan will be reviewed, and if necessary revised to the satisfaction of the Director-General (in consultation with relevant government agencies) in accordance with Condition 4 of Schedule 5 of the Project Approval:

- within 3 months of the submission of an:

- annual review under Condition 3, Schedule 5 of the Project Approval;
  - incident report under Condition 7, Schedule 5 of the Project Approval;
  - Independent Environmental Audit report under Condition 9, Schedule 5 of the Project Approval;
  - Modification to the conditions of the Project Approval.
- following changes to consent or licence conditions relating to air quality management or monitoring;
  - following any significant air quality related incident;
  - for necessary or any unforeseen changes to air quality monitoring locations;
  - where there is a relevant change in technology or legislation; or
  - Where a risk assessment identifies the requirement to alter the plan.

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## 9.0 References

### 9.1 External Documents

Hansen Bailey (2009), Mt Arthur Coal Consolidation Project Environmental Assessment. Prepared for Hunter Valley Energy Coal Pty Ltd.

Department of Environment and Conservation (2007), Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales

Department of Environment, Climate Change and Water (12 November 2009), Environmental Protection Licence 11457

Department of Planning, Minister of Planning's Project Approval document (dated 29 September 2010), Application Number 09-0062, Mt Arthur Coal Mine – Open Cut Consolidation Project.

Standards Australia (2008), AS 3580.9.8-2008: Methods for sampling and analysis of ambient air - Determination of suspended particulate matter - PM10 continuous direct mass method using a tapered element oscillating microbalance analyser

Standards Australia (2007), AS 3580.1.1:2007: Methods for sampling and analysis of ambient air - Guide to siting air monitoring equipment

Standards Australia (1987), AS 2923-1987: Ambient air - Guide for measurement of horizontal wind for air quality applications

Katestone Environmental Pty Ltd (2010), NSW Coal Mining Benchmarking Study: International Best Practice Measures to Prevent and/or Minimise Emissions or Particulate Matter from Coal Mining

URS Australia Pty Limited (2000) The Mount Arthur North Coal Project, Environmental Impact Statement. Prepared for Coal Operations Australia Limited.

### 9.2 Mt Arthur Coal Internal EMS Documents

#### **Mt Arthur Coal EMS Documents**

*MAC-ENC-PRO-057 Air Quality Monitoring Program*

*MAC-ENC-PRO-008 Communication and Reporting*

*MAC-ENC-PRO-042 Community and Environmental Incident Response and Reporting*

## Appendix 1: Air Quality Management Plan Requirements Checklist

**Table 3: Air quality management plan requirements checklist**

Condition	Requirement	Section																												
<b>Mt Arthur Coal Open Cut Consolidation Project Approval</b>																														
3:18	The Proponent shall ensure that no offensive odours are emitted from the site, as defined under the POEO Act.	3.5																												
3:19	The Proponent shall implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site to the satisfaction of the Director-General.	3.4																												
3:20	<p><b>Impact Assessment Criteria</b></p> <p>20. The Proponent shall ensure that the dust emissions generated by the Mt Arthur mine complex do not cause additional exceedances of the air quality impact assessment criteria listed in Tables 9, 10 and 11 at any residence on privately owned land, or on more than 25 percent of any privately owned land, except where such exceedance is predicted in the EA. For these properties, the Proponent shall comply with the air quality predictions in the EA.</p> <p><i>Table 9: Long term impact assessment criteria for particulate matter</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th><b>Pollutant</b></th> <th><b>Averaging period</b></th> <th><b>Criterion</b></th> <th><b>Basis</b></th> </tr> </thead> <tbody> <tr> <td>Total suspended particulate (TSP) matter</td> <td>Annual</td> <td>90 µg/m<sup>3</sup></td> <td>Total<sup>1</sup></td> </tr> <tr> <td>Particulate matter &lt; 10 µm (PM10)</td> <td>Annual</td> <td>30 µg/m<sup>3</sup></td> <td>Total<sup>1</sup></td> </tr> </tbody> </table> <p><i>Table 10: Short term impact assessment criterion for particulate matter</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th><b>Pollutant</b></th> <th><b>Averaging period</b></th> <th><b>Criterion</b></th> <th><b>Basis</b></th> </tr> </thead> <tbody> <tr> <td>Particulate matter &lt; 10 µm (PM10)</td> <td>24 hour</td> <td>50 µg/m<sup>3</sup></td> <td>Total<sup>1</sup></td> </tr> </tbody> </table> <p><i>Table 11: Long term impact assessment criteria for deposited dust</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th><b>Pollutant</b></th> <th><b>Averaging Period</b></th> <th><b>Maximum increase<sup>2</sup> in deposited dust level</b></th> <th><b>Maximum total<sup>1</sup> deposited Dust level</b></th> </tr> </thead> <tbody> <tr> <td>Deposited Dust</td> <td>Annual</td> <td>2 g/m<sup>2</sup>/month</td> <td>4g/m<sup>2</sup>/month</td> </tr> </tbody> </table> <p><i>1 Background concentrations due to all other sources plus the incremental increase in</i></p>	<b>Pollutant</b>	<b>Averaging period</b>	<b>Criterion</b>	<b>Basis</b>	Total suspended particulate (TSP) matter	Annual	90 µg/m <sup>3</sup>	Total <sup>1</sup>	Particulate matter < 10 µm (PM10)	Annual	30 µg/m <sup>3</sup>	Total <sup>1</sup>	<b>Pollutant</b>	<b>Averaging period</b>	<b>Criterion</b>	<b>Basis</b>	Particulate matter < 10 µm (PM10)	24 hour	50 µg/m <sup>3</sup>	Total <sup>1</sup>	<b>Pollutant</b>	<b>Averaging Period</b>	<b>Maximum increase<sup>2</sup> in deposited dust level</b>	<b>Maximum total<sup>1</sup> deposited Dust level</b>	Deposited Dust	Annual	2 g/m <sup>2</sup> /month	4g/m <sup>2</sup> /month	<p>3.0</p> <p>4.0</p> <p>5.0</p> <p>Appendix 2 AQ Monitoring Program</p>
<b>Pollutant</b>	<b>Averaging period</b>	<b>Criterion</b>	<b>Basis</b>																											
Total suspended particulate (TSP) matter	Annual	90 µg/m <sup>3</sup>	Total <sup>1</sup>																											
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Condition	Requirement	Section																																			
	<p>concentrations due to the mine complex alone. 2 Incremental increase in concentrations due to the mine complex alone.</p> <p>Note: Deposited dust is assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method.</p>																																				
3:21	<p><b>Land Acquisition Criteria</b></p> <p>21. If the dust emissions generated by the Mt Arthur mine complex exceed the criteria in Tables 12, 13, and 14 at any residence on privately owned land, or on more than 25 percent of any privately owned land, the Proponent shall, upon receiving a written request for acquisition from the landowner, acquire the land in accordance with the procedures in conditions 7-8 of schedule 4.</p> <p><i>Table 12: Long term land acquisition criteria for particulate matter</i></p> <table border="1" data-bbox="454 847 1630 943"> <thead> <tr> <th>Pollutant</th> <th>Averaging period</th> <th>Criterion</th> <th>Basis</th> </tr> </thead> <tbody> <tr> <td>Total suspended particulate (TSP) matter</td> <td>Annual</td> <td>90 µg/m<sup>3</sup></td> <td>Total1</td> </tr> <tr> <td>Particulate matter &lt; 10 µm (PM10)</td> <td>Annual</td> <td>30 µg/m<sup>3</sup></td> <td>Total1</td> </tr> </tbody> </table> <p><i>Table 13: Short term land acquisition criteria for particulate matter</i></p> <table border="1" data-bbox="454 1034 1630 1225"> <thead> <tr> <th>Pollutant</th> <th>Averaging Period</th> <th>Criterion</th> <th>Percentile 3</th> <th>Basis</th> </tr> </thead> <tbody> <tr> <td>Particulate matter &lt; 10 µm (PM10)</td> <td>24 hour</td> <td>150 µg/m<sup>3</sup></td> <td>99</td> <td>Total1</td> </tr> <tr> <td>Particulate matter &lt; 10 µm (PM10)</td> <td>24 hour</td> <td>50 µg/m<sup>3</sup></td> <td>98.6</td> <td>Increment<sup>2</sup></td> </tr> </tbody> </table> <p><i>Table 14: Long term land acquisition criteria for deposited dust</i></p> <table border="1" data-bbox="454 1316 1630 1444"> <thead> <tr> <th>Pollutant</th> <th>Averaging Period</th> <th>Maximum increase<sup>2</sup> in deposited dust level</th> <th>Maximum total1 deposited dust level</th> </tr> </thead> <tbody> <tr> <td>Deposited dust</td> <td>Annual</td> <td>2 g/m<sup>2</sup>/month</td> <td>4g/m<sup>2</sup>/month</td> </tr> </tbody> </table>	Pollutant	Averaging period	Criterion	Basis	Total suspended particulate (TSP) matter	Annual	90 µg/m <sup>3</sup>	Total1	Particulate matter < 10 µm (PM10)	Annual	30 µg/m <sup>3</sup>	Total1	Pollutant	Averaging Period	Criterion	Percentile 3	Basis	Particulate matter < 10 µm (PM10)	24 hour	150 µg/m <sup>3</sup>	99	Total1	Particulate matter < 10 µm (PM10)	24 hour	50 µg/m <sup>3</sup>	98.6	Increment <sup>2</sup>	Pollutant	Averaging Period	Maximum increase <sup>2</sup> in deposited dust level	Maximum total1 deposited dust level	Deposited dust	Annual	2 g/m <sup>2</sup> /month	4g/m <sup>2</sup> /month	<p>4.4 Appendix 2 AQ Monitoring Program</p>
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Condition	Requirement	Section														
	<p>1 Background concentrations due to all other sources plus the incremental increase in concentrations due to the mine complex alone.                      2 Incremental increase in concentrations due to the mine complex alone.                      3 Based on the number of block 24 hour averages in an annual period.                      4 Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents, illegal activities or any other activity agreed by the Director-General in consultation with OEH.</p> <p>Note: Deposited dust is assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method.</p>															
3:22	<p><b>Additional Air Quality Mitigation Measures</b></p> <p>22. Upon receiving a written request from the owner of any residences:</p> <ul style="list-style-type: none"> <li>(a) on the air quality affected land listed in Table 1;</li> <li>(b) on the land listed in Table 15; and</li> <li>(c) on any other privately-owned land where subsequent air quality monitoring shows the dust generated by the Mt Arthur mine complex exceeds the air quality limits in Tables 9, 10 or 11, the Proponent shall implement reasonable dust mitigation measures (such as a first-flush roof system, internal or external air filters and/or air conditioning) at the residence in consultation with the owner.</li> </ul> <p>If within 3 months of receiving this request from the owner, the Proponent and the owner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Director-General for resolution.</p> <p><i>Table 15: Land subject to additional air quality mitigation upon request</i></p> <table border="1" data-bbox="454 1219 1630 1441"> <thead> <tr> <th>Receiver No.1</th> <th>Receiver</th> </tr> </thead> <tbody> <tr> <td>91</td> <td>Doherty</td> </tr> <tr> <td>94</td> <td>Skinner</td> </tr> <tr> <td>187</td> <td>Duncan</td> </tr> <tr> <td>200</td> <td>Walsh</td> </tr> <tr> <td>201</td> <td>Denton</td> </tr> <tr> <td>205</td> <td>Lambkin</td> </tr> </tbody> </table>	Receiver No.1	Receiver	91	Doherty	94	Skinner	187	Duncan	200	Walsh	201	Denton	205	Lambkin	4.4 Appendix 2
Receiver No.1	Receiver															
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Condition	Requirement	Section
	<i>Note: To interpret the locations referred to in Table 15, see the applicable figure in Appendix 5.</i>	
	<b>Operating Conditions</b>	
3:23	23. The Proponent shall: (a) implement best practice air quality management, including all reasonable and feasible measures to minimise offsite odour, fume and dust emissions of the Mt Arthur mine complex;	3.0 4.0
3:23	(b) ensure that the real-time air quality monitoring and meteorological forecasting data are assessed regularly, and that mining operations are relocated, modified and/or suspended to ensure compliance with the relevant conditions of this approval;	3.2 4.0 Table 1 AQ Monitoring Program
3:23	(c) ensure any visible air pollution generated by the Mt Arthur mine complex is assessed regularly, and that operations are relocated, modified, and/or suspended to minimise air quality impacts on privately-owned land; and	3.0 4.0 Table 1
3:23	(d) implement all reasonable and feasible measures to minimise off-site odour and fume emissions generated by the Mt Arthur mine complex, including those generated by any spontaneous combustion, to the satisfaction of the Director-General.	3.5 4.0 Table 1
	<b>Air Quality and Greenhouse Gas Management Plan</b>	
3:24	24. The Proponent shall prepare and implement an Air Quality and Greenhouse Gas Management Plan for the Mt Arthur mine complex to the satisfaction of the Director-General. This plan must: (a) be prepared in consultation with OEH, and be submitted to the Director-General for approval by the end of March 2011;	3.4 Appendix 3
3:24	(b) describe the air quality mitigation measures that would be implemented to ensure compliance with the relevant conditions of this approval, including a real-time air quality management system; and	3.0, 3.1, 3.2, 3.3 Table 1 AQ Monitoring

Condition	Requirement	Section
		Program
3:24	(c) include an air quality monitoring program, that uses a combination of real-time monitors, high volume samplers and dust deposition gauges to evaluate the performance of the Mt Arthur mine complex, and includes a protocol for determining exceedances of the relevant conditions in this approval.	3.2 AQ Monitoring Program
3:25	<p><b>METEOROLOGICAL MONITORING</b></p> <p>25. During the life of the project, the Proponent shall ensure that there is a suitable meteorological station in the vicinity of the site that:</p> <p>(a) complies with the requirements in the <i>Approved Methods for Sampling of Air Pollutants in New South Wales</i> guideline; and</p> <p>(b) is capable of continuous real-time measurement of temperature lapse rate in accordance with the <i>NSW Industrial Noise Policy</i>.</p>	3.2 AQ Monitoring Program
4:1	<p><b>NOTIFICATION OF LANDOWNERS</b></p> <p>1. By the end of November 2010, the Proponent shall notify in writing the owners of the land listed in:</p> <p>(a) Table 1 of schedule 3 that they have the right to require the Proponent to acquire their land at any stage during the project;</p> <p>(b) Table 1 (noise affected land) and Table 7 of schedule 3 that they are entitled to ask the Proponent to install additional noise mitigation measures at their residence at any stage during the project; and</p> <p>(c) Table 1 (air quality affected land) and Table 15 of schedule 3 that they are entitled to ask the Proponent to install additional air quality mitigation measures at their residence at any stage during the project.</p>	4.4 Appendix 2
4:2	<p>2. If the results of the monitoring required in schedule 3 identify that impacts generated by the project are greater than the relevant impact assessment criteria, except where a negotiated agreement has been entered into in relation to that impact, then the Proponent shall, within 2 weeks of obtaining the monitoring results notify the Director-General, the affected landowners and tenants (including tenants of mine-owned properties) accordingly, and provide regular monitoring results to each of these parties until the results show that the project is complying with the criteria in schedule 3.</p>	4.4 Appendix 2

Condition	Requirement	Section
	<p>If the monitoring results exceed the relevant 'additional noise mitigation measures' criteria in condition 7 of schedule 3 or 'additional air quality mitigation measures' criteria in condition 22 of schedule 3 at a residence on privately-owned land, then the Proponent shall also notify the landowner that they are entitled to ask the Proponent to install additional noise or air quality mitigation measures at their residence.</p>	
4:3	<p>3. The Proponent shall send a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time) to all landowners and/or existing or future tenants (including tenants of mine owned properties) of properties where:</p> <p>(a) the predictions in the EA identify that the dust emissions generated by the project are likely to be greater than the air quality land acquisition criteria in schedule 3, with such notice to be provided by the end of November 2010; and</p> <p>(b) monitoring results identify that the mine is exceeding the air quality land acquisition criteria in schedule 3, with such notice to be provided within 2 weeks of identifying the exceedance.</p>	4.4
4:4	<p><b>INDEPENDENT REVIEW</b></p> <p>4. If a landowner of privately-owned land considers the project to be exceeding the impact assessment criteria in schedule 3, then he/she may ask the Director-General in writing for an independent review of the impacts of the project on his/her land.</p> <p>If the Director-General is satisfied that an independent review is warranted, the Proponent shall within 2 months of the Director-General's decision:</p> <p>(a) commission a suitably qualified, experienced and independent expert, whose appointment has been approved by the Director-General, to:</p> <ul style="list-style-type: none"> <li>• consult with the landowner to determine his/her concerns;</li> <li>• conduct monitoring to determine whether the project is complying with the relevant impact assessment criteria in schedule 3; and</li> <li>• if the project is not complying with these criteria then:                             <ul style="list-style-type: none"> <li>○ determine if the more than one mine is responsible for the exceedance, and if so the relative share of each mine regarding the impact on the land;</li> <li>○ identify the measures that could be implemented to ensure compliance with the relevant criteria; and</li> </ul> </li> </ul> <p>(b) give the Director-General and landowner a copy of the independent review.</p>	4.4 Appendix 2

Condition	Requirement	Section
4:5	<p>5. If the independent review determines that the project is complying with the relevant impact assessment criteria in schedule 3, then the Proponent may discontinue the independent review with the approval of the Director-General.</p> <p>If the independent review determines that the project is not complying with the relevant impact assessment criteria in schedule 3, and that the project is primarily responsible for this non-compliance, then the Proponent shall:</p> <ul style="list-style-type: none"> <li>(a) implement all reasonable and feasible mitigation measures, in consultation with the landowner and appointed independent expert, and conduct further monitoring until the project complies with the relevant criteria; or</li> <li>(b) secure a written agreement with the landowner to allow exceedances of the relevant impact assessment criteria, to the satisfaction of the Director-General.</li> </ul> <p>If the measures referred to in (a) do not achieve compliance with the air quality and/or noise land acquisition criteria in schedule 3, and the Proponent cannot secure a written agreement with the landowner to allow these exceedances within 3 months, then upon receiving a written request from the landowner, the Proponent shall acquire all or part of the landowner's land in accordance with the procedures in conditions 7-8 below.</p>	4.4 Appendix 2
4:6	<p>6. If the independent review determines that the relevant impact assessment criteria in schedule 3 are being exceeded, but that more than one mine is responsible for this non-compliance, then the Proponent shall, together with the relevant mine/s:</p> <ul style="list-style-type: none"> <li>(a) implement all reasonable and feasible mitigation measures, in consultation with the landowner and appointed independent expert, and conduct further monitoring until there is compliance with the relevant criteria; or</li> <li>(b) secure a written agreement with the landowner and other relevant mines to allow exceedances of the relevant impact assessment criteria in schedule 3, to the satisfaction of the Director-General.</li> </ul> <p>If the measures referred to in (a) do not achieve compliance with the air quality and/or noise land acquisition criteria in schedule 3, and the Proponent together with the relevant mine/s cannot secure a written agreement with the landowner to allow these exceedances within 3 months, then upon receiving a written request from the landowner, the Proponent shall acquire all or part of the landowner's land on as equitable a basis as possible with the</p>	4.4 Appendix 2

Condition	Requirement	Section
	relevant mine/s, in accordance with the procedures in conditions 7-8 below.	
4:7	<p><b>LAND ACQUISITION</b></p> <p>7. Within 3 months of receiving a written request from a landowner with acquisition rights, the Proponent shall make a binding written offer to the landowner based on:</p> <p>(a) the current market value of the landowner’s interest in the property at the date of this written request, as if the property was unaffected by the project, having regard to the:</p> <ul style="list-style-type: none"> <li>• existing and permissible use of the land, in accordance with the applicable planning instruments at the date of the written request; and</li> <li>• presence of improvements on the property and/or any approved building or structure which has been physically commenced at the date of the landowner’s written request, and is due to be completed subsequent to that date, but excluding any improvements that have resulted from the implementation of the ‘additional noise mitigation measures’ in condition 7 of schedule 3, ‘additional air quality mitigation measures’ in condition 22 of schedule 3, or ‘compensatory water supplies’ in condition 34 of schedule 3;</li> </ul> <p>(b) the reasonable costs associated with:</p> <ul style="list-style-type: none"> <li>• relocating within the Muswellbrook, Singleton or Scone local government area, or to any other local government area determined by the Director-General; and</li> <li>• obtaining legal advice and expert advice for determining the acquisition price of the land, and the terms upon which it is to be acquired; and</li> </ul> <p>(c) reasonable compensation for any disturbance caused by the land acquisition process.</p> <p>However, if at the end of this period, the Proponent and landowner cannot agree on the acquisition price of the land and/or the terms upon which the land is to be acquired, then either party may refer the matter to the Director-General for resolution.</p> <p>Upon receiving such a request, the Director-General shall request the President of the NSW Division of the Australian Property Institute to appoint a qualified independent valuer to:</p> <ul style="list-style-type: none"> <li>• consider submissions from both parties;</li> <li>• determine a fair and reasonable acquisition price for the land and/or the terms upon which the land is to be acquired, having regard to the matters referred to in paragraphs (a)-(c) above;</li> <li>• prepare a detailed report setting out the reasons for any determination; and</li> </ul>	4.4 Appendix 2

Condition	Requirement	Section
	<ul style="list-style-type: none"> <li>• provide a copy of the report to both parties.</li> </ul> <p>Within 14 days of receiving the independent valuer’s report, the Proponent shall make a binding written offer to the landowner to purchase the land at a price not less than the independent valuer’s determination.</p> <p>However, if either party disputes the independent valuer’s determination, then within 14 days of receiving the independent valuer’s report, they may refer the matter to the Director-General for review. Any request for a review must be accompanied by a detailed report setting out the reasons why the party disputes the independent valuer’s determination. Following consultation with the independent valuer and both parties, the Director-General shall determine a fair and reasonable acquisition price for the land, having regard to the matters referred to in paragraphs (a)-(c) above, the independent valuer’s report, and the detailed report of the party that disputes the independent valuer’s determination. Within 14 days of this determination, the Proponent shall make a binding written offer to the landowner to purchase the land at a price not less than the Director-General’s determination.</p> <p>If the landowner refuses to accept the Proponent’s binding written offer under this condition within 6 months of the offer being made, then the Proponent’s obligations to acquire the land shall cease, unless the Director-General determines otherwise.</p>	
4:8	<p>8. The Proponent shall pay all reasonable costs associated with the land acquisition process described in condition 7 above, including the costs associated with obtaining Council approval for any plan of subdivision (where permissible), and registration of this plan at the Office of the Registrar-General.</p>	4.4 Appendix 2
5:2	<p><b>Management Plan Requirements</b></p> <p>2. The Proponent shall ensure that the management plans required under this approval are prepared in accordance with any relevant guidelines, and include:</p> <p>(a) detailed baseline data;</p> <p>(b) a description of:</p> <ul style="list-style-type: none"> <li>• the relevant statutory requirements (including any relevant approval, licence or lease conditions);</li> <li>• any relevant limits or performance measures/criteria;</li> </ul>	3.2 2.0 AQ Monitoring Program 6.0

Condition	Requirement	Section
	<ul style="list-style-type: none"> <li>• the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the project or any management measures;</li> <li>(c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;</li> <li>(d) a program to monitor and report on the:                             <ul style="list-style-type: none"> <li>• impacts and environmental performance of the project;</li> <li>• effectiveness of any management measures (see c above);</li> </ul> </li> <li>(e) a contingency plan to manage any unpredicted impacts and their consequences;</li> <li>(f) a program to investigate and implement ways to improve the environmental performance of the project over time;</li> <li>(g) a protocol for managing and reporting any:                             <ul style="list-style-type: none"> <li>• incidents;</li> <li>• complaints;</li> <li>• non-compliances with statutory requirements; and</li> <li>• exceedances of the impact assessment criteria and/or performance criteria; and</li> </ul> </li> <li>(h) a protocol for periodic review of the plan.</li> </ul>	<p style="text-align: center;">3.0</p> <p style="text-align: center;">AQ Monitoring Program &amp; 5.0</p> <p style="text-align: center;">4.2</p> <p style="text-align: center;">7.0</p> <p style="text-align: center;">4.0, 5.0</p> <p style="text-align: center;">8.0</p>
<p style="text-align: center;">5:3</p>	<p><b>Annual Review</b></p> <p>3. By the end of 2010, and annually thereafter, the Proponent shall review the environmental performance of the project to the satisfaction of the Director-General. This review must:</p> <ul style="list-style-type: none"> <li>(a) describe the works that were carried out in the past year, and the works that are proposed to be carried out over the next year;</li> <li>(b) include a comprehensive review of the monitoring results and complaints records of the project over the past year, which includes a comparison of these results against the                             <ul style="list-style-type: none"> <li>• the relevant statutory requirements, limits or performance measures/criteria;</li> <li>• the monitoring results of previous years; and</li> <li>• the relevant predictions in the EA;</li> </ul> </li> <li>(c) identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance;</li> <li>(d) identify any trends in the monitoring data over the life of the project;</li> <li>(e) identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies; and</li> <li>(f) describe what measures will be implemented over the next year to improve the environmental performance of the project.</li> </ul>	<p style="text-align: center;">5.0</p>

Condition	Requirement	Section
5:4	<p><b>Revision of Strategies, Plans and Programs</b></p> <p>4. Within 3 months of the submission of an:</p> <ul style="list-style-type: none"> <li>(a) annual review under condition 3 above;</li> <li>(b) incident report under condition 7 below;</li> <li>(c) audit under condition 9 below; and</li> <li>(d) any modification to the conditions of this approval, the Proponent shall review, and if necessary revise, the strategies, plans, and programs required under this approval to the satisfaction of the Director-General.</li> </ul> <p><i>Note: This is to ensure the strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the project.</i></p>	8.0
5:7	<p><b>REPORTING</b></p> <p><b>Incident Reporting</b></p> <p>7. The Proponent shall notify the Director-General and any other relevant agencies of any incident associated with the project as soon as practicable after the Proponent becomes aware of the incident.</p> <p>Within 7 days of becoming aware of the incident, the Proponent shall provide the Director-General and any relevant agencies with a detailed report on the incident.</p>	5.0
5:8	<p><b>Regular Reporting</b></p> <p>8. The Proponent shall provide regular reporting on the environmental performance of the project on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this approval, and to the satisfaction of the Director-General.</p>	5.0
5:11	<p><b>ACCESS TO INFORMATION</b></p> <p>11. From the end of December 2010, the Proponent shall:</p> <ul style="list-style-type: none"> <li>(a) make the following information publicly available on its website:                             <ul style="list-style-type: none"> <li>• a copy of all current statutory approvals for the project;</li> <li>• a copy of the current environmental management strategy and associated plans and programs;</li> </ul> </li> </ul>	Refer to Mt Arthur Coal Website

Condition	Requirement	Section
	<ul style="list-style-type: none"> <li>• a summary of the monitoring results of the project, which have been reported in accordance with the various plans and programs approved under the conditions of this approval;</li> <li>• a complaints register, which is to be updated on a monthly basis;</li> <li>• a copy of the minutes of CCC meetings;</li> <li>• a copy of any Annual Reviews (over the last 5 years);</li> <li>• a copy of any Independent Environmental Audit, and the Proponent's response to the recommendations in any audit;</li> <li>• any other matter required by the Director-General; and</li> </ul> <p>(b) keep this information up to date, to the satisfaction of the Director-General.</p>	
<b>Mt Arthur Coal Open Cut Consolidation Project Statement of Commitments</b>		
1.	<i>Mt Arthur Coal's Environmental Monitoring Programs for air quality, water quality, noise and blasting will be reviewed and updated as required, in consultation with relevant regulators for approval by the Department.</i>	3.2 8.0
3.	<i>In addition to the best practice management measures currently in place, Mt Arthur Coal will apply a road sealant or dust suppressant product on all active coal and overburden haul roads and / or utilise other such technologies and initiatives as required to ensure that the air quality outcomes described in the EA are achieved.</i>	3.0 Refer to SWMP
4.	<i>Mt Arthur Coal will undertake regular reviews and monitoring of greenhouse gas emissions and energy efficiency initiatives to ensure that greenhouse gas emissions per tonne of product coal are kept to the minimum practicable level.</i>	3.4
5.	<i>Mt Arthur Coal will establish a new real-time Tapered Element Oscillating Microbalances (TEOM) monitoring station or stations on the Mt Arthur site positioned so that it (they) provide data that are representative of air quality conditions on the site itself and on nearby properties where air quality data may be needed for mine management purposes. Data collected is to be published in the Project's Annual Reviews.</i>	3.2 AQ Monitoring Program
<b>Mt Arthur Underground Project Approval</b>		
6.8.3	The Proponent will maintain their existing dust monitoring network (or as otherwise agreed with OEH), that includes high volume air samplers measuring PM <sub>10</sub> on a 6 day cycle, real-time samplers measuring PM <sub>10</sub> and dust deposition gauges. Dust monitoring findings relating to the project will be	3.2, 5.0, 6.0, AQ Monitoring Program

Condition	Requirement	Section
	reported annually in the AEMR (refer to commitment 6.14.1).	
<b>Environmental Protection Licence 11457</b>		
	<b>R6 Spontaneous combustion control program reporting</b>	
R6.1	R6.1 The monthly summaries, monthly assessments and monthly maps prepared under the spontaneous combustion control program must be submitted to the EPA in the form of a 6 monthly report. The licensee must forward a copy of each 6 monthly report to the regional office of the EPA no later than two (2) months after the 6 monthly period being reported.	3.5
R6.2	R6.2 The monthly summaries, assessments and maps must be retained by the licensee for not less than four (4) years following the month under review. The records must be kept in a legible form and must be made available to any authorised officer of the EPA on request.	3.5
O4.1	The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.	3.0 & 4.0
M2.1	For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:	3.2 AQ Monitoring Program
M3.1	Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:	
	(a) any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or	3.2 AQ Monitoring Program
	(b) if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or	3.2 AQ Monitoring Program
	(c) if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.	3.2 AQ Monitoring Program

**Appendix 2: Landholder Consultation and Investigation Process**

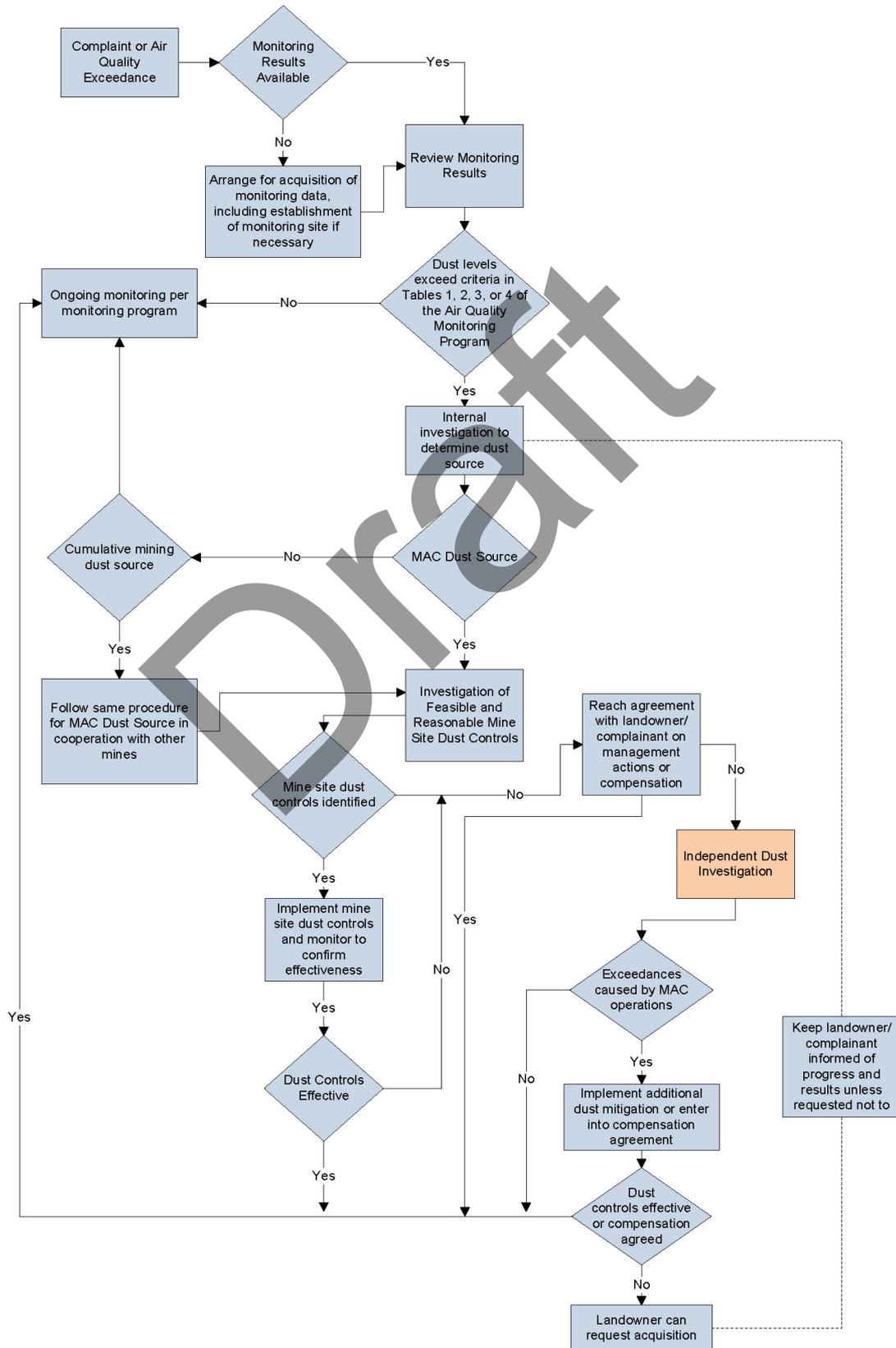


Figure 1: Landholder consultation and investigation process

## Appendix 3: Government Approval Document

Insert approval correspondence once sent through!

Draft